



Technical Service Bulletin

GROUP

RECALL

NUMBER

25-01-027H

DATE

APRIL 2025

MODEL(S)

IONIQ 5 N (NE EV N)

SUBJECT: **MULTI-EVENT UPDATE: IEB SOFTWARE INSPECTION & VCU SOFTWARE LOGIC IMPROVEMENT (RECALL 277)**

★ IMPORTANT

Vehicle repairs related to safety recalls are critically important and must be performed properly in accordance with TSB procedures. Review this bulletin in its entirety prior to beginning any repair work.

As required by federal law, dealers must not deliver new vehicles for sale or for lease to customers until all open recalls have been performed. Dealers must also perform all open recalls on used vehicles, demo, and rental vehicles prior to placing them into customer use and whenever an affected vehicle is in the shop for any maintenance or repair.

Access the “Vehicle Information” screen via WebDCS to identify open recalls.

Description: Certain 2025MY IONIQ 5 N (NE EV N) vehicles are equipped with a Left-Foot Braking (LFB) feature designed for use on performance roadways, such as racetracks. LFB allows operators to control vehicle speed through simultaneous operation of the accelerator and brake pedals. During certain driving maneuvers with LFB engaged, the Integrated Electronic Brake (IEB) control software may initiate depressurization of the ABS system, resulting in reduced braking performance. Separately, the Vehicle Control Unit (VCU) software may cause a momentary continued acceleration during release of the accelerator pedal if the vehicle’s N e-Shift feature is engaged. Reduced braking performance could lead to longer stopping distances than anticipated by the operator, increasing the risk of a crash. Momentary continued acceleration could increase the risk of a crash.

Follow the procedure in this TSB to inspect the software version for the IEB and update if necessary. All impacted vehicles will require the VCU software update.



Information

All vehicles will require the VCU software update. IEB requires software inspection and update if necessary.

Applicable Vehicles (Certain):



- 2025MY IONIQ 5 N (NE EV N) produced from 12/18/2023 – 01/07/2025

NOTICE

To avoid any potential damage to IONIQ vehicles, this recall can only be performed at IONIQ certified dealers.

Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

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Tool Name	Tool Number	Figure	Ordering Information
VCI 3	G0VHNNN06		Website: https://hyundaessentialtools.com/ Email: Hyundaitools@snapon.com
VCI 2	G1XDDMN001		Phone: 1-855-763-9199 Hours: 7 AM – 7 PM CST

GDS Information:

System	Event Number	Description
ABSESC	1219	NE N IEB LOGIC IMPROVEMENT(LFB)
VCU	1261	NE N IMPROVING VCU (VEHICLE CONTROL UNIT) ERRORS DURING VGS (VEHICLE GEAR SHIFT) OPERATION

(or use a later available event as listed in the GDS **ABSESC** and **VCU** Update screen if available.)

NOTE 1: If the Current ROM ID and Latest ROM ID match when reviewing the IEB version, proceed with completing Event **#1261** only.

NOTE 2: If the Current ROM ID and Latest ROM ID do **NOT** match when reviewing the IEB version, complete both Events **#1219** and **#1261**.

SUBJECT:MULTI-EVENT UPDATE: IEB SOFTWARE INSPECTION &
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Model	Op. Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
IONIQ 5 N (NE EV N)	51D100R0	VCU Software Update	0.3 M/H	39751-1XPN1	I14	ZZ3
	51D100R1	VCU and IEB Software Updates	0.7 M/H	58520-NI000		

NOTE 1: Submit claim on Claim Entry Screen as “Campaign” type.

NOTE 2: If a part is found in need of replacement while performing this recall and the affected part is still under warranty, submit a separate claim using the same repair order. If the affected part is out of warranty, submit a Prior Approval request for goodwill consideration prior to performing the work.

NOTE 3: Op times include VIN, mileage, and photo capture of the “ECU update complete” screen as outlined in the Digital Documentation Policy. Required photos include “ECU update complete” screen for event #1261 and Event #1219 (if applicable).

NOTE 4: Claim is subject to debit if the required software (1219 and/or 1261) is **NOT** updated successfully. The software updates described in NOTE 3 above are required to qualify and prevent claim rejection.

ROM ID Information:

Model	Event	System	ECU Part Number	ROM ID	
				Old	New
IONIQ 5 N (NE EV N)	1219	ABSESC	58520-NI000	1.00 ~ 1.04	1.05
	1261	VCU	39751-1XPN1	NE1N-45E-N03-S00	NE1N-45E-N03-S05
				NE1N-45E-N03-S01	
				NE1N-45E-N03-S02	
				NE1N-45E-N03-S03	

Service Procedure:

DIGITAL DOCUMENTATION



This TSB includes Repair validation photos. Refer to the latest Warranty Digital Documentation Policy for requirements.

NOTICE

You must initially perform the GDS ECU update in Auto Mode.

- If the ECU update starts but then fails in Auto Mode, perform the update in Manual Mode to recover.

NOTICE

Ensure the vehicle's battery charge is **above 11.0 Volts** and the tablet's battery charge is **above 30%** before performing a software update to avoid the update from failing.

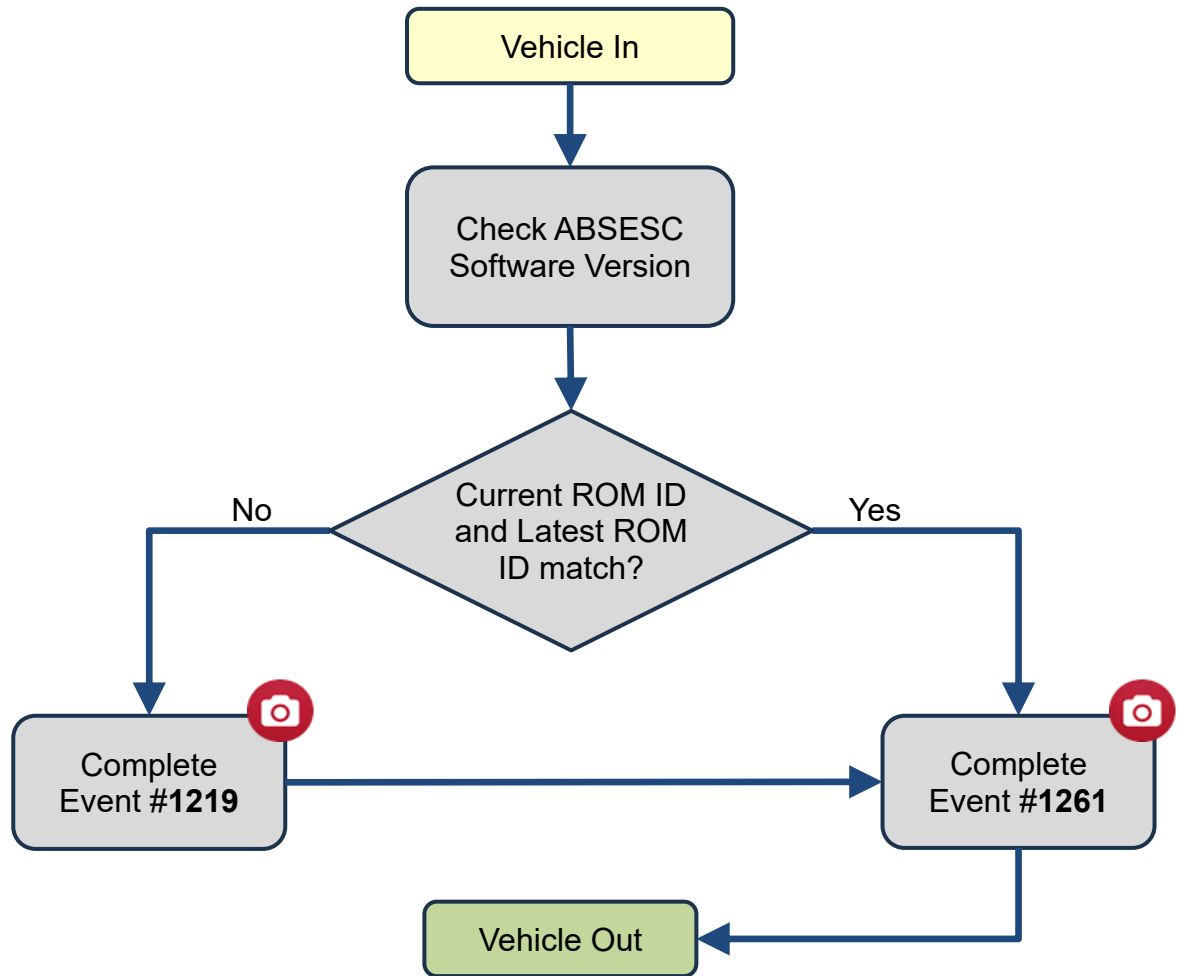
i Information

- Turn **OFF** all lamps (do **NOT** leave head lamp switch in auto mode) and all accessories.
- Perform update with the ignition switch in the **ON** position.
- Do **NOT** disconnect any cables connected to the vehicle or scan tool during update.
- Do **NOT** start the engine during update.
- Do **NOT** turn **OFF** the ignition switch during update.

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Service Procedure Flowchart

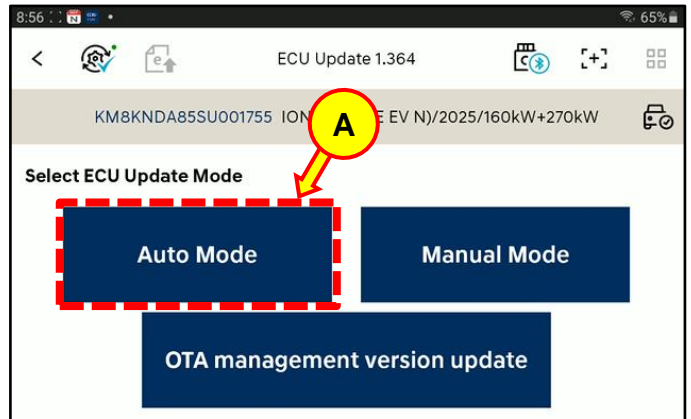


IEB ROM ID Check

1. After selecting **Auto Mode (A)**, please check control unit ROM IDs.

i **Information**

Refer to **TSB # 24-GI-012H**, “**ECU Update Procedure for Tablet-Based GDS-Smart**”, for additional information.



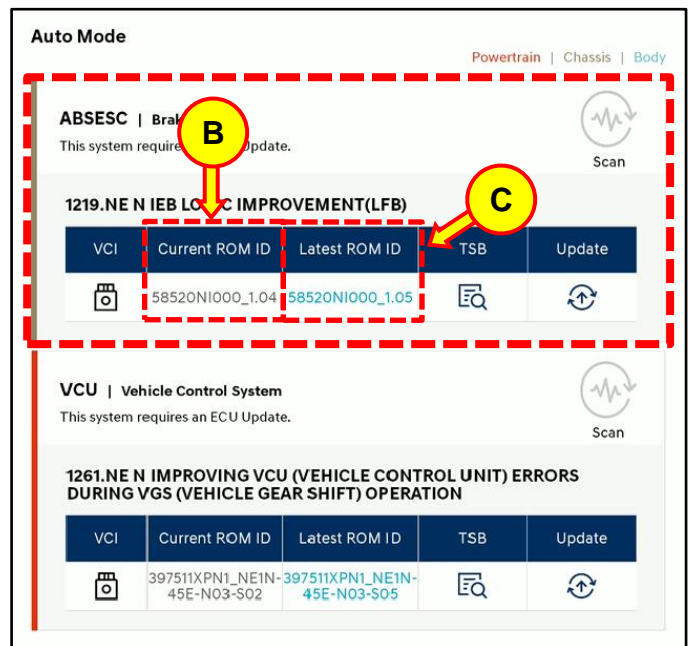
2. Verify the ROM ID listed under the **ABSESC** system.

- If the IEB **Current ROM ID (B)** and **Latest ROM ID (C)** do **NOT** match, proceed to [ECU Update Procedure: Event 1219](#) section on page 7, followed by [ECU Update Procedure: Event 1261](#) on page 11.

- If the IEB **Current ROM ID** and **Latest ROM ID** match, proceed to [ECU Update Procedure: Event 1261](#) section on page 11.

i **Information**

Other updates might be available. Refer to available TSBs for more information.



ECU Update Procedure: Event 1219 (ABSESC)

1. Perform the ECU update in **Auto Mode**.

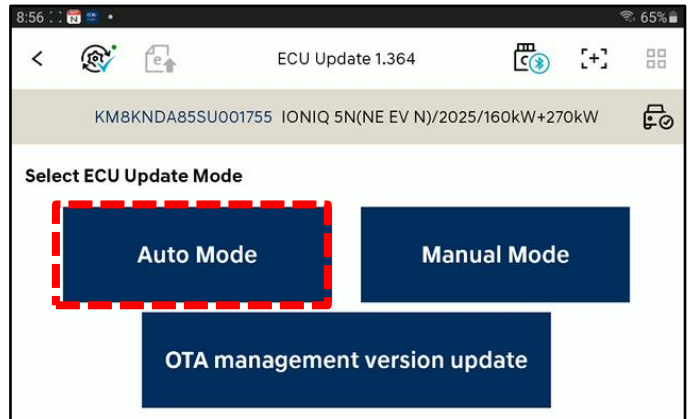
NOTICE

Both **ABSESC** and **VCU** systems **must** be updated if both are available.



Information

Refer to **TSB # 24-GI-012H**, “**ECU Update Procedure for Tablet-Based GDS-Smart**”, for additional information.



2. Verify the ROM ID.

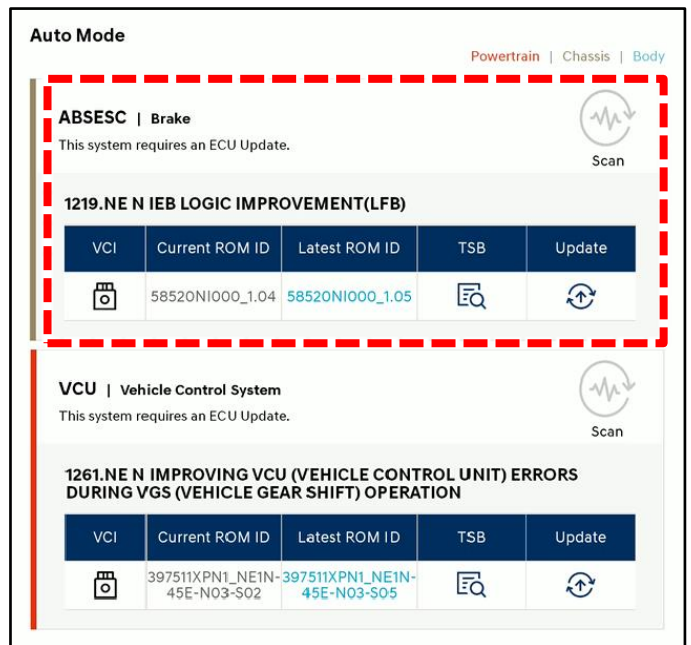
Select the **ABSESC** system to scan the vehicle’s current ROM ID, and then begin the update.

NOTICE

Check the current ROM ID version and compare it to the ROM ID Information table before attempting to perform the software update.

NOTICE

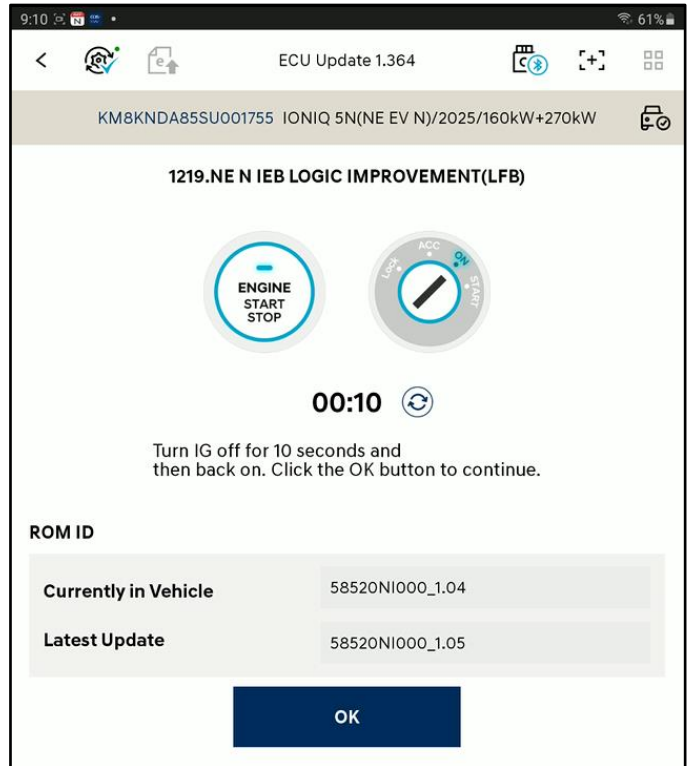
If the update fails, remove the power connector from the indoor fuse box for at least **5 seconds** then reconnect it. Retry the update.



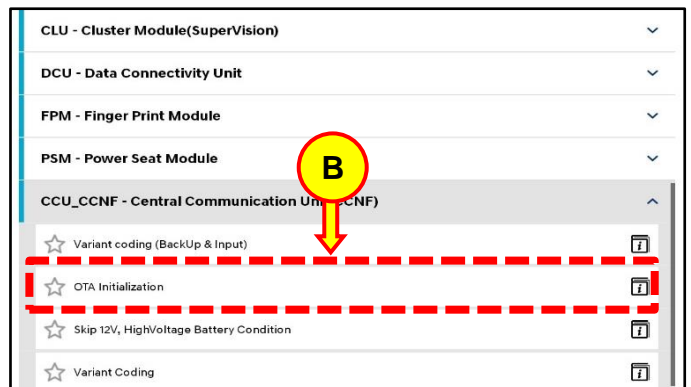
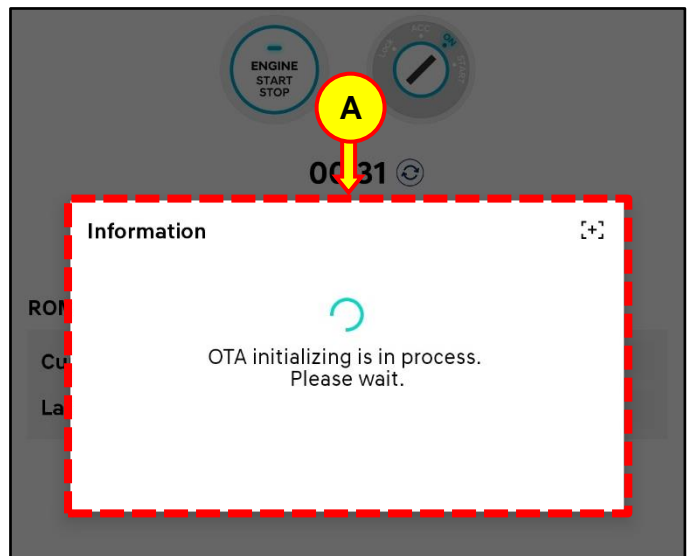
- After the ECU update process shows 100% complete, follow the prompts on the screen to cycle the ignition **OFF** for at least **10 seconds**, then back **ON**, to reset the control unit.

i Information

Use the **Refresh** button to reset the timer.



- OTA initialization (A) should perform automatically:
 - If OTA initialization performs automatically, then proceed with the service procedure.
 - If the OTA initialization process fails, complete it manually under: **S/W Management > CCU_CCNF - Central Communication Unit (CCNF) > OTA Initialization (B)**. Follow the instructions on the screen.

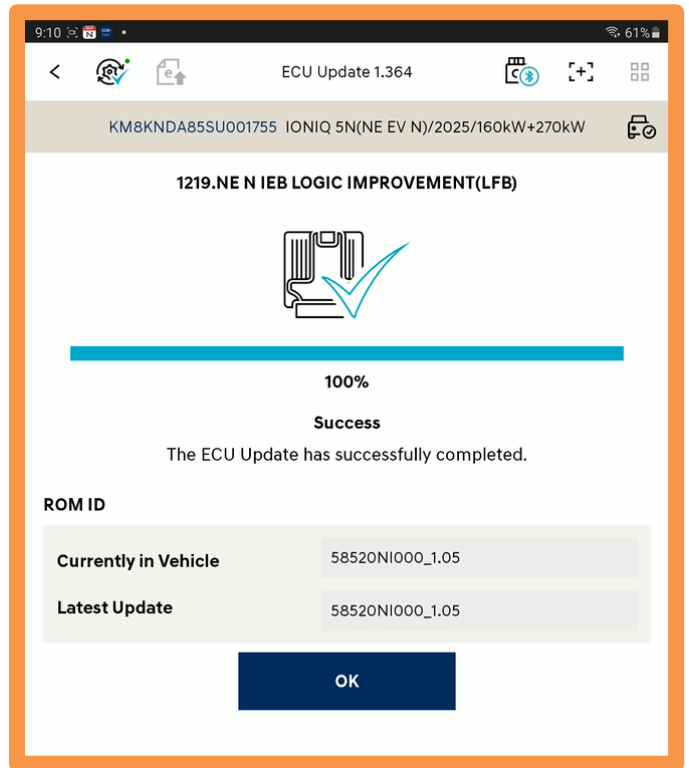


5.

DIGITAL DOCUMENTATION



Take a screenshot of the IEB ECU update complete screen using your tablet and upload to STUI.

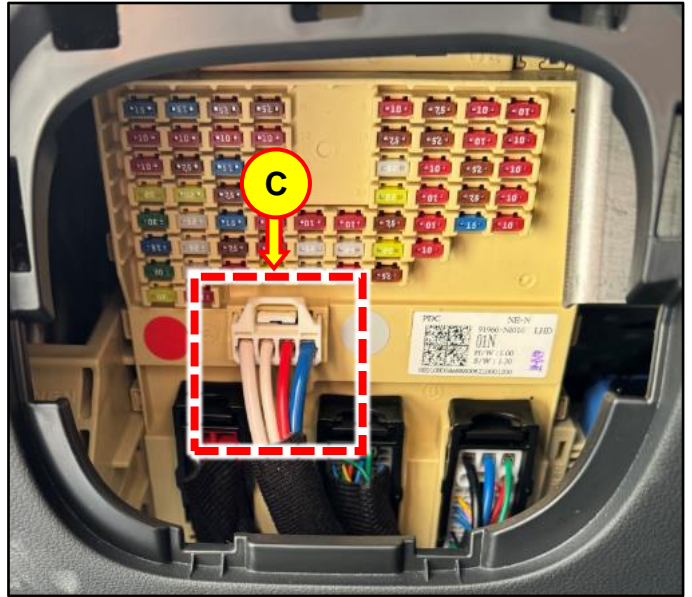


6. Perform an **All Systems Fault Code** search and erase DTC history that had incidentally occurred from the ECU update.



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7. Disconnect the power connector (C) of the indoor fuse box, wait at least **5 seconds**, then reconnect it.



8. Place in **Ready** mode to confirm proper operation of the vehicle.

Cycle the Start/Stop button to the **ON** position, but do **NOT** place in **Ready** mode.

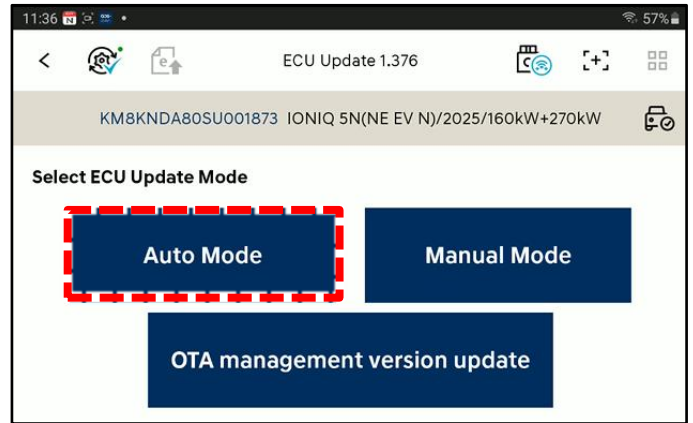
9. Proceed to [ECU Update Procedure: Event 1261](#) to perform the next required update.

SUBJECT:

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ECU Update Procedure: Event 1261 (VCU)

1. Perform update **1261** in **Auto Mode**.

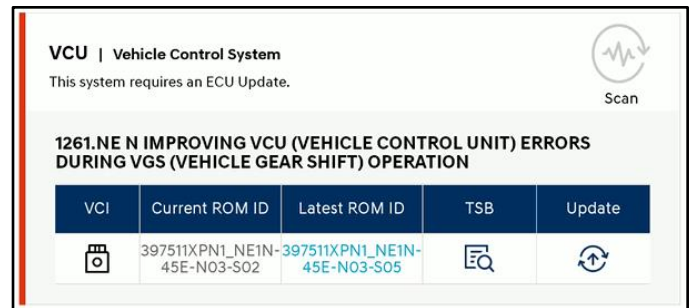


2. Verify the ROM ID.

Select the **VCU** system to scan the vehicle's current ROM ID and then begin the update.

NOTICE

Check the current ROM ID version and compare it to the ROM ID Information table before attempting to perform the software update.



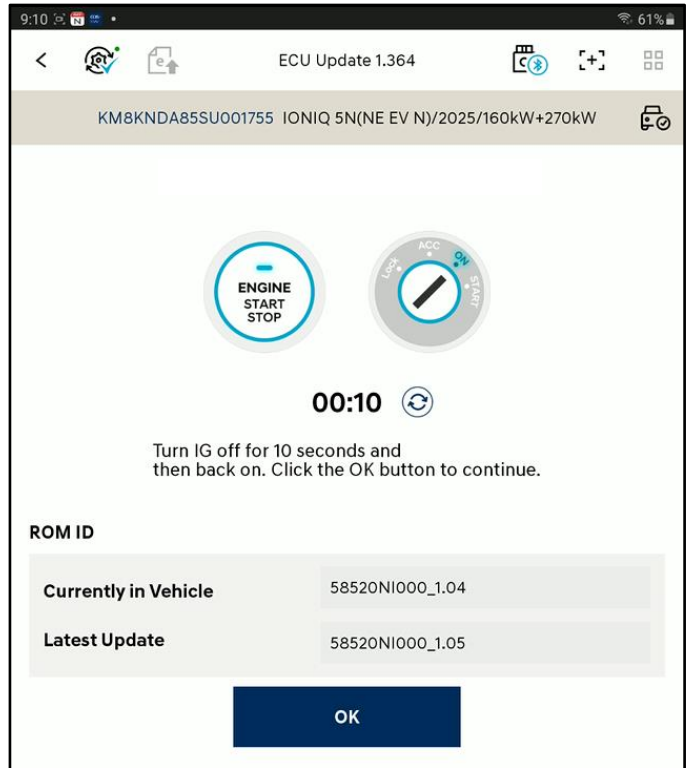
NOTICE

If the update fails, remove the power connector from the indoor fuse box for at least **5 seconds** then reconnect it. Retry the update.

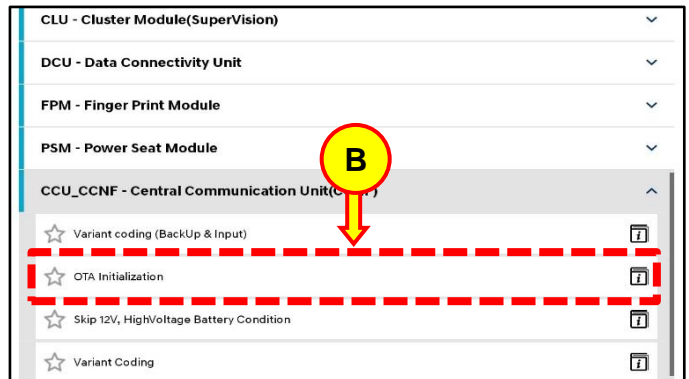
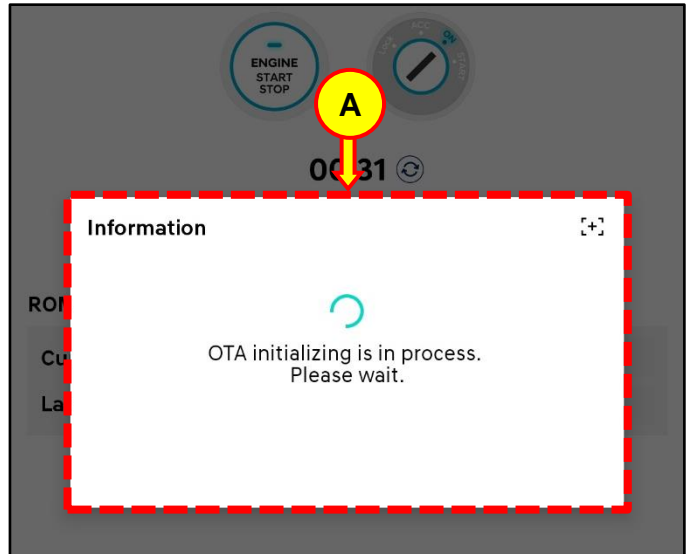
- After the ECU update process shows 100% complete, follow the prompts on the screen to cycle the ignition **OFF** for at least **10 seconds**, then back **ON**, to reset the control unit.

i Information

Use the **Refresh** button to reset the timer.



- OTA initialization (A) should perform automatically:
 - If OTA initialization performs automatically, then proceed with the service procedure.
 - If the OTA initialization process fails, complete it manually under: **S/W Management > CCU_CCNF - Central Communication Unit (CCNF) > OTA Initialization (B)**. Follow the instructions on the screen.

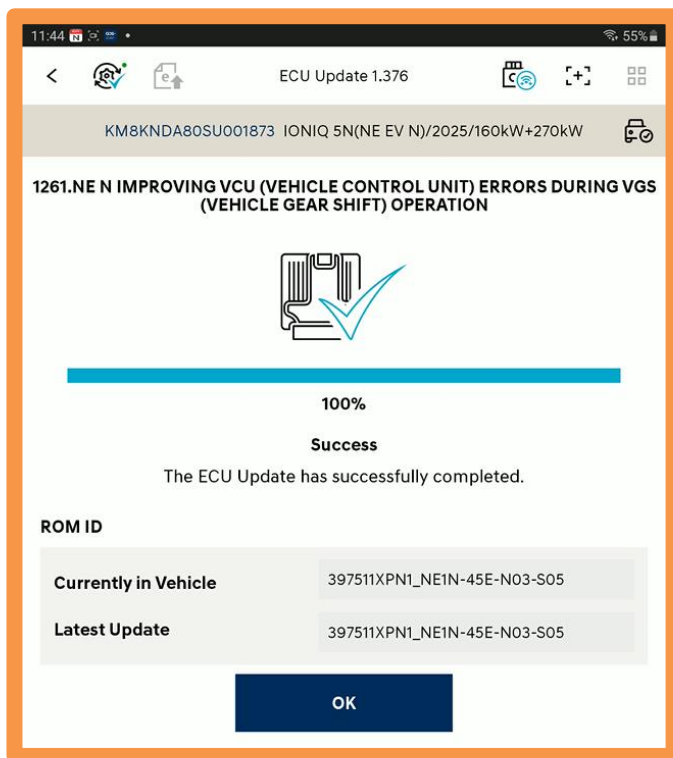


5.

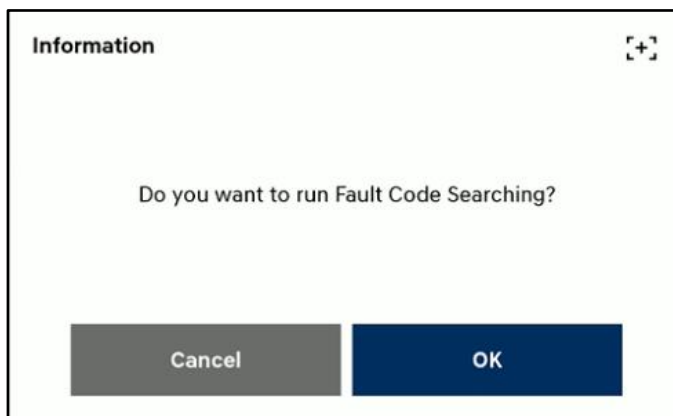
DIGITAL DOCUMENTATION



Take a screenshot of the VCU ECU update complete screen using your tablet and upload to STUI.

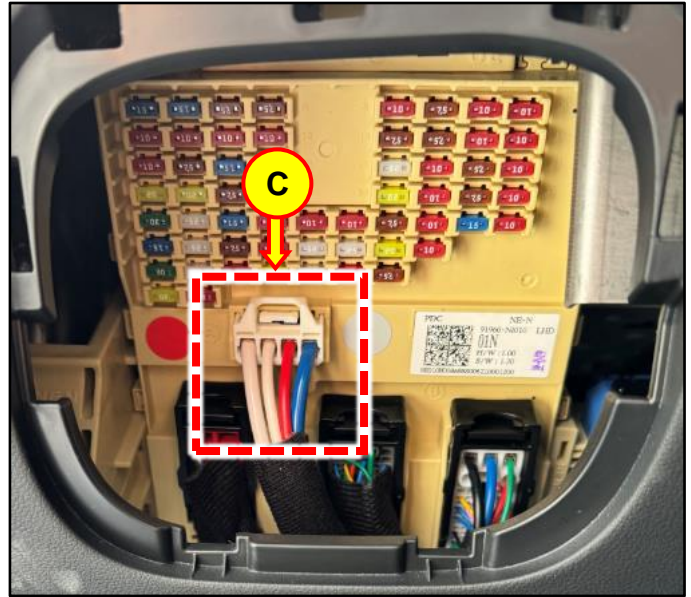


6. Perform an **All Systems Fault Code** search and erase DTC history that had incidentally occurred from the ECU update.



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7. Disconnect the power connector (C) of the indoor fuse box, wait at least **5 seconds**, then reconnect it.



8. Place in **Ready** mode to confirm proper operation of the vehicle.

NOTICE

If the ECU update fails in Auto Mode, perform the update in Manual Mode using the password(s) below.

Manual Mode Password:

Event	Menu	Password
1219	NE N IEB 58520-NI000	5420
1261	NE N VCU 39751-1XPN1	5489